

JC20 Rec'd PCT/PTO 01 JUL 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. No. : (Nat'l. Stage of PCT/JP2003/016493)
Applicant : Akihiko Namba, et al.
Filed : On even date herewith
Tech. Cntr./Art Unit : (To be assigned)
Examiner : (To be assigned)

Docket No. : 39.050
Customer No. : 29453

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This constitutes an Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.97 and 1.98. The documents listed on the accompanying Form PTO/SB/08A are hereby brought to the Examiner's attention in the patent application identified above.

REMARKS

Cite Nos. F1 through F4 and O1 through O3, as listed on Form PTO/SB/08A, were cited in the International Search Report for PCT/JP2003/016493, of which the presently submitted patent application is to be the National Stage. Among these, Cite Nos. F1 through F4 are not in English.

Furthermore, Cite Nos. F5 through F8 are not in English either.

**Concise Explanation of Relevance/Copy of Translation
Pursuant to 37 C.F.R. § 1.98(a)(3)**

As a concise explanation of the relevance of Cite Nos. F1 through F4, a copy of the International Search Report in English accompanies this paper.

Nat'l. Stage of Int'l. App. No. PCT/JP2003/016493
IDS Submission

JC20 Rec'd PCT/PTO 01 JUL 2005

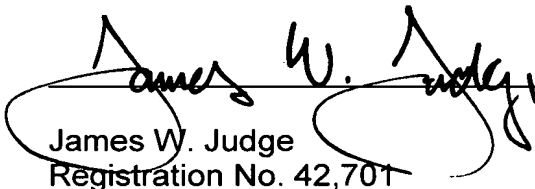
Cite No. F5 is mentioned in the paragraph that begins in line 8 on page 5 in the Background Art section of the present specification. The relevance of Cite Nos. F6 through F8 is discussed in the paragraph that begins in line 15 on page 4 therein.

Furthermore, English abstracts of Cite Nos. F1 through F8 are available on the Japanese Patent Office website through Patent Abstracts of Japan, and a copy of the corresponding abstract is attached to the back of each reference.

The Examiner is respectfully requested to consider these references, to indicate so on the accompanying Form PTO/SB/08A, and to make the document of record in the present application.

Respectfully submitted,

Date: June 29, '05


James W. Judge
Registration No. 42,701

JUDGE PATENT FIRM
Rivière Shukugawa 3rd Fl.
3-1 Wakamatsu-cho
Nishinomiya-shi, Hyogo 662-0035
JAPAN

Telephone: 305-938-7119
Voicemail/Fax: 703-997-4565

JC20 Rec'd PCT/PTO 01 JUL 2005

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known.

10/541184

Application Number

Filing Date	December 22, 2003 [371(c) date]
-------------	---------------------------------

First Named Inventor	Akihiko Namba
----------------------	---------------

Art Unit	(To be assigned)
----------	------------------

Examiner Name	(To be assigned)
---------------	------------------

Attorney Docket Number	39.050
------------------------	--------

Sheet	2	of	3
-------	---	----	---

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	F7	JP-H05-024991-A	02-02-1993	Matsushita Electric		✓
	F8	JP-H06-048715-A	02-22-1994	Matsushita Electric		✓

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND**

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

JC20 Rec'd PCT/PTO 01 JUL 2005

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

.Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known 10/541184			
		Application Number 10/541184			
		Filing Date December 22, 2003 [371(c) date]			
		First Named Inventor Akihiko Namba			
		Art Unit (To be assigned)			
		Examiner Name (To be assigned)			
Sheet	3	of	3	Attorney Docket Number	39.050

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	O1	G. Popovici, et al., "Prospective n-type impurities and methods of diamond doping," Diamond and Related Materials, Vol. 4, 1995, pp. 1305-1310	
	O2	S. A. Kajihara, et al., "Nitrogen and Potential n-Type Dopants in Diamond," Physical Review Letters, Vol. 66, No. 15, 15 Apr 1991, pp. 2010-2013	
	O3	R. Kalish, "The search for donors in diamond," Diamond and Related Materials," Vol. 10, 2001, pp. 1749-1755	
	O4	J. F. Prins, "Activation of boron-dopant atoms in ion-implanted diamonds," Physical Review B, Vol. 38, No. 8, 15 September 1988, pp. 5576-5584	
	O5	F. Fontaine, et al., "Boron implantation/in situ annealing procedure for optimal p-type properties of diamond," Appl. Phys. Lett., Vol. 68, No. 16, 15 April 1996, pp. 2264-2266	
	O6	J. F. Prins, "Towards improving the quality of semiconducting diamond layers doped with large atoms," Diamond and Related Materials, Vol. 8, 1999, pp. 1635-1641	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.